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#44058

N2 (D4M8L) Rabbit mAb							



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H	Endogenous	22	Rabbit IgG	#P80188	3934
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemist	ry (Paraffin)		<b>Dilution</b> 1:1000 1:3000 - 1:12000	)
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sens	sitivity	LCN2 (D4M8L) Rabbit mAb recognizes endogenous levels of total LCN2 protein.				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala73 of human LCN2 protein.				
Background		Lipocalin 2 (LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), belongs to the lipocalin family. Proteins in this family exhibit considerable sequence diversity, but share a highly conserved structure composed of an eight-stranded antiparallel beta-barrel that encloses an internal ligand-binding site (1,2). LCN2 is considered as an iron transporter. LCN2 can bind bacterial siderophores and inhibits bacterial growth by iron depletion (3). It can also bind endogenous compounds like catechol in complex with iron (4). LCN2 was originally identified in neutrophils, and its expression was induced in many other tissues like kidney and liver in response to various pathologic states, such as infection, ischemia, and acute kidney injury. LCN2 is considered a biomarker for conditions like ischemic stroke, acute kidney injury, inflammatory and metabolic diseases (5-7).				
Background Re	ferences	1. Flower, D.R. (1996) <i>J</i> 2. Grzyb, J. et al. (2006) 3. Goetz, D.H. et al. (20 4. Bao, G. et al. (2010) 5. Haase-Fielitz, A. et a 6. Abella, V. et al. (201 7. Hochmeister, S. et a	Biochem J 318 (Pt 1) 5) J Plant Physiol 163 002) Mol Cell 10, 102 Nat Chem Biol 6, 6( al. (2014) Ann Clin B 5) Biomarkers 20, 5 al. (2016) PLoS One	, 1-14. , 895-915. 33-43. )2-9. <i>iochem</i> 51, 335-51. 65-71. 11, e0154797.		
Species Reactiv	ity	Species reactivity is de	etermined by testing	g in at least one approved	l application (e.g., v	western blot).
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20	ern blots, incubate at 4°C with gentle s	membrane with diluted p haking, overnight.	rimary antibody in	5% w/v BSA, 1X
Applications Ke	y	W: Western Blotting I	HC-P: Immunohisto	chemistry (Paraffin)		
Cross-Reactivity	у Кеу	H: Human				
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